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ARITHMETICAL TABLES

OF

ENGLISH AND INDIAN WEIGHTS AND MEASURES.

FOR THE USE OF YOUTHS IN INDIA.

CALCUTTA:
PRINTED AT THE CALCUTTA SCHOOL-BOOK SOCIETY'S PRESS:
AND SOLD AT THEIR DEPOSITORY, CIRCULAR ROAD.
1857.

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I. A. C. I.

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INDIAN INSTITUTE
OXFORD

ARITHMETICAL TABLES

OF

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NUMERATION.

TABLE I.

Teaches the relative value of the nine digits.

Units									1
Tens								1	2
Hundreds							1	2	3
Thousands						1	2	3	4
Tens of Thousands					1	2	3	4	5
Hundreds of Thousands				1	2	3	4	5	6
Millions			1	2	3	4	5	6	7
Tens of Millions		1	2	3	4	5	6	7	8
Hundreds of Millions	1	2	3	4	5	6	7	8	9

TABLE II.

Teaches the value of ciphers or noughts (0).

Millions.			Thousands.					
Hundreds	Tens	Units	Hundreds	Tens	Units	Hundreds	Tens	Units
9	8	7	6	5	4	3	2	1
9	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0
		7	0	0	0	0	0	0
			6	0	0	0	0	0
				5	0	0	0	0
					4	0	0	0
						3	0	0
							2	0
								1

TABLE III.

Teaches the value of digits and ciphers combined.

Units									7
Tens								9	0
Hundreds							5	0	7
Thousands						6	0	0	0
Tens of Thousands					8	0	2	0	1
Hundreds of Thousands				1	0	1	0	1	0
Millions			5	0	0	6	5	0	0
Tens of Millions		2	0	7	0	0	0	3	0
Hundreds of Millions	4	0	7	0	6	0	9	0	8

ADDITION AND SUBTRACTION TABLE.

2 and 2 are 4
2 - 3 - 5
2 - 4 - 6
2 - 5 - 7
2 - 6 - 8
2 - 7 - 9
2 - 8 - 10
2 - 9 - 11
2 - 10 - 12
2 - 11 - 13
2 - 12 - 14

3 and 3 are 6
3 - 4 - 7
3 - 5 - 8
3 - 6 - 9
3 - 7 - 10
3 - 8 - 11
3 - 9 - 12
3 - 10 - 13
3 - 11 - 14
3 - 12 - 15

4 and 4 are 8
4 - 5 - 9
4 and 6 are 10
4 - 7 - 11
4 - 8 - 12
4 - 9 - 13
4 - 10 - 14
4 - 11 - 15
4 - 12 - 16

5 and 5 are 10
5 - 6 - 11
5 - 7 - 12
5 - 8 - 13
5 - 9 - 14
5 - 10 - 15
5 - 11 - 16
5 - 12 - 17

6 and 6 are 12
6 - 7 - 13
6 - 8 - 14
6 - 9 - 15
6 - 10 - 16
6 - 11 - 17
6 - 12 - 18

7 and 7 are 14
7 - 8 - 15
7 - 9 - 16
7 - 10 - 17
7 - 11 - 18
7 - 12 - 19

8 and 8 are 16
8 - 9 - 17
8 - 10 - 18
8 - 11 - 19
8 - 12 - 20

9 and 9 are 18
9 - 10 - 19
9 - 11 - 20
9 - 12 - 21

10 and 10 are 20
10 - 11 - 21
10 - 12 - 22

11 and 11 are 22
11 - 12 - 23

12 and 12 are 24

MULTIPLICATION TABLE.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96
7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112
8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128
9	18	27	36	45	54	63	72	81	90	99	108	117	126	135	144
10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160
11	22	33	44	55	66	77	88	99	110	121	132	143	154	165	176
12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
13	26	39	52	65	78	91	104	117	130	143	156	169	182	195	208
14	28	42	56	70	84	98	112	126	140	154	168	182	196	210	224
15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240
16	32	48	64	80	96	112	128	144	160	176	192	208	224	240	256

TABLES OF MONEY, WEIGHTS, AND MEASURES.

OF ENGLISH MONEY.

Farthing.......	¼	4 Farthings	make	1 Penny.	*d.*
Halfpenny......	½	12 Pence	..	1 Shilling.	*s.*
Three farthings.	¾	20 Shillings	..	1 Pound.	£.

Farthings
4 = 1 Penny.
48 = 12 = 1 Shilling.
960 = 240 = 20 = 1 Pound.

Pence Table.

d.		*s.*	*d.*	*d.*		*s.*	*d.*	*d.*		*s.*	*d.*
20	are	1	8	80	are	6	8	140	are	11	8
24	..	2	0	84	..	7	0	144	..	12	0
30	..	2	6	90	..	7	6	150	..	12	6
36	..	3	0	96	..	8	0	156	..	13	0
40	..	3	4	100	..	8	4	160	..	13	4
48	..	4	0	108	..	9	0	168	..	14	0
50	..	4	2	110	..	9	2	170	..	14	2
60	..	5	0	120	..	10	0	180	..	15	0
70	..	5	10	130	..	10	10	190	..	15	10
72	..	6	0	132	..	11	0	200	..	16	8

Shillings Table.

s.		£	*s.*	*s.*		£	*s.*	*s.*		£	*s.*
20	are	1	0	80	are	4	0	140	are	7	0
30	..	1	10	90	..	4	10	150	..	7	10
40	..	2	0	100	..	5	0	160	..	8	0
50	..	2	10	110	..	5	10	170	..	8	10
60	..	3	0	120	..	6	0	180	..	9	0
70	..	3	10	130	..	6	10	190	..	9	10

OF BENGAL MONEY.

4 Pice, or 12 pie, make		1 Anna.	A.
16 Annas	..	1 Rupee.	Rs.
16 Rupees.	..	1 Gold Mohur.	G. M.

Pie
3 = 1 Pice.
12 = 4 = 1 Anna.
192 = 64 = 16 = 1 Rupee.
3072 = 1024 = 256 = 16 = 1 Gold Mohur.

Cowries, or small shells used in the Bazar for the payment of Coolies, &c. are reckoned thus:

4	Cowries, C.	make	1 Gunda.	Gun.
20	Gundas	..	1 Pun.	Pn.
16	Puns	..	1 Kahun.	Kn.
4	Kahuns	..	1 Rupee.	R.

Cowries
4 = 1 Gunda.
80 = 20 = 1 Pun.
1280 = 322 = 16 = 1 Kahun.

Cowries rise and fall in their value, according to the abundance or scarcity of them. Europeans reckon 12 Pie to the Anna.

Bengal Money Tables.

pie		*a.*	*p.*	*pie*		*a.*	*p.*	*pie*		*a.*	*p.*
12	are	1	0	72	are	6	0	132	are	11	0
18	..	1	6	80	..	6	8	140	..	11	8
24	..	2	0	84	..	7	0	144	..	12	0
30	..	2	6	90	..	7	6	150	..	12	6
36	..	3	0	96	..	8	0	156	..	13	0
40	..	3	4	100	..	8	4	160	..	13	4
48	..	4	0	108	..	9	0	168	..	14	0
50	..	4	2	110	..	9	2	170	..	14	2
60	..	5	0	120	..	10	0	180	..	15	0
70	..	5	10	130	..	10	10	190	..	15	10

* * *

annas		*rs.*	*a.*	*annas*		*rs.*	*a.*	*annas*		*rs.*	*a.*
16	are	1	0	80	are	5	0	144	are	9	0
20	..	1	4	90	..	5	10	150	..	9	6
30	..	1	14	96	..	6	0	160	..	10	0
32	..	2	0	100	..	6	4	170	..	10	10
40	..	2	8	110	..	6	14	176	..	11	0
48	..	3	0	112	..	7	0	180	..	11	4
50	..	3	2	120	..	7	8	190	..	11	14
60	..	3	12	128	..	8	0	192	..	12	0
64	..	4	0	130	..	8	2	200	..	12	8
70	..	4	6	140	..	8	12	208	..	13	0

Reckoning the rupee at 2 shillings, the value of an anna is 1½*d*. or three halfpence, English.

Troy Weight.

24	Grains, gr.	make	1 Pennyweight.	dwt.
20	Pennyweights	..	1 Ounce.	oz.
12	Ounces	..	1 Pound.	lb.

Grains
24 = 1 Pennyweight.
480 = 20 = 1 Ounce.
5760 = 240 = 12 = 1 Pound.

Gold, silver, jewels, and most liquids, are weighed by this weight.

Gold and Silver Weight.

4	Punko or quarter grains	make	1 Dhan, or grain.	Dn.
4	Dhan	..	1 Rutty.	Ry.
6¼	Rutty	..	1 Anna.	An.
8	Rutty	..	1 Massa.	Ma.
100	Rutty, or 12½ massa, or 16 annas		1 Tolah.	T.
106¼	Rutty, or $13\frac{9}{32}$ massa, or 17 annas		1 Gold Mohur.	

Punko
4 = 1 Dhan.
16 = 4 = 1 Rutty.
100 = 25 = 6¼ = 1 Anna.
128 = 32 = 8 = 1 Massa.
1600 = 400 = 100 = 12½ = 1 Tolah.

The weight of the new Gold Mohur and that of the Co.'s Rupee are the same, viz. 180 grains Troy.

Avoirdupois Weight.

16	Drams, dr.	make	1 Ounce.	Oz.
16	Ounces	..	1 Pound.	lb.
28	Pounds	..	1 Quarter.	Qr.
4	Quarters	..	1 Hundredweight.	Cwt.
20	Hundredweight	..	1 Ton.	Ton.

Drams
16 = 1 Ounce.
256 = 16 = 1 Pound.
7168 = 448 = 28 = 1 Quarter.
28672 = 1792 = 112 = 4 = 1 Hundredweight.
573440 = 35840 = 2240 = 80 = 20 = 1 Ton.

Bread, meat, grocery, and goods in general, and all metals except gold and silver, are weighed by this weight.

Bazar Weight.

5 Sicki or quarter rupees, S. make		1 Kancha.	K.
4 Kancha	..	1 Chuttack.	C.
4 Chuttacks	..	1 Powah.	P.
4 Powahs	..	1 Seer.	S.
5 Seers	..	1 Pussary.	P.
8 Pussaries	..	1 Maund.	M.

Sicki
5 = 1 Kancha.
20 = 4 = 1 Chuttack.
80 = 16 = 4 = 1 Powah.
320 = 64 = 16 = 4 = 1 Seer.
1600 = 320 = 80 = 20 = 5 = 1 Pussary.
12800 = 2560 = 640 = 160 = 40 = 8 = 1 Maund.

One Bazar maund is equal to $82\frac{2}{7}$ lbs. avoirdupois, or 100 lbs. Troy.
100 Bazar maunds = 110 Factory maunds, and $1\frac{1}{2}$ Factory maunds = 1 cwt.

Apothecaries' Weight.

20 Grains, gr. make		1 Scruple.	℈
3 Scruples	..	1 Dram.	ʒ
8 Drams	..	1 Ounce.	℥
12 Ounces	..	1 Pound.	℔

Grains
20 = 1 Scruple.
60 = 3 = 1 Dram.
480 = 24 = 8 = 1 Ounce.
5760 = 288 = 96 = 12 = 1 Pound.

The pound and ounce are equal to those of Troy Weight.

Bengal Doctors' Weight.

4 Jaub, J. make		1 Rutty.	Ry.
5 Rutty	..	1 Dhan.	Dn.
2 Dhan	..	1 Massa.	Ma.
2 Massa	..	1 Tolah = 1 Sa. Rupee.	

Jaub
4 = 1 Rutty.
20 = 5 = 1 Dhan.
40 = 10 = 2 = 1 Massa.
80 = 20 = 4 = 2 = 1 Tolah = 180 grs. Troy.

Cloth Measure.

2¼	Inches, In.	make	1 Nail.	Nl.
4	Nails	..	1 Quarter.	Qr.
4	Quarters	..	1 Yard.	Yd.

3	Quarters	make	1 Flemish Ell.
5	Quarters	..	1 English Ell.
6	Quarters	..	1 French Ell.

Inches
2¼ = 1 Nail.
9 = 4 = 1 Quarter.
36 = 16 = 4 = 1 Yard.

Bengal Cloth Measure.

3	Jaub, J.	make	1 Ungooly.	Un.
3	Ungooly	..	1 Gerah.	Ger.
8	Gerah	..	1 Haut or Cubit.	Ht.
2	Haut	..	1 Guj = 1 yard.	Gj.

Jaub
3 = 1 Ungooly.
9 = 3 = 1 Gerah.
72 = 24 = 8 = 1 Haut.
144 = 48 = 16 = 2 = 1 Guj.

Long Measure.

3	Barleycorns, or 12 lines		1 Inch.	In.
12	Inches	..	1 Foot.	Ft.
3	Feet	..	1 Yard.	Yd.
22	Yards	..	1 Chain.	Ch.
10	Chains	..	1 Furlong.	Fur.
8	Furlongs	..	1 Mile.	Mile.
3	Miles	..	1 League.	Lea.

4	Inches	make	1 Hand.
6	Feet	..	1 Fathom.
5½	Yards	..	1 Rod, Pole, or Perch.
40	Poles	..	1 Furlong.

Barleycorns
3 = 1 Inch.
12 = 1 Foot.
36 = 3 = 1 Yard.
198 = 16½ = 5½ = 1 Rod.
792 = 66 = 22 = 4 = 1 Chain.
7920 = 660 = 220 = 40 = 10 = 1 Furlong.
63360 = 5280 = 1760 = 320 = 80 = 8 = 1 Mile.

60 geographical miles, or 69½ British miles, make 1 degree.

Bengal Long Measure.

3	Jaub, Jb.	make	1	Ungooly.	Un.
4	Ungooly	..	1	Moosty.	Mty.
3	Moosty	..	1	Bigot.	Bgt.
2	Bigot	..	1	Haut.	Ht.
4	Haut	..	1	Dhunnoo, = 2000	Yards.
1000	Dhunnoo	..	1	Crose.	Cr.
2	Crose	..	1	Ghoorbutty.	Ghy.
2	Ghoorbutty	..	1	Jojun.	Jn.
100	Jojun	..	1	Mundul.	Ml.
100	Mundul	..	1	Coonduh.	Coon.
100	Coonduh	..	1	Gunduh.	Gh.
100	Gunduh	..	1	Madiny, or circumference of the earth.	

Grains in length *(Jaub)*
3= 1 Finger's breadth, *(Ungooly.)*
12= 4= 1 Hand-breath, *(Moosty.)*
36= 12= 3= 1 Span, *(Bigot.)*
72= 24= 6= 2= 1 Cubit, *(Haut.)*
288= 96= 24= 8= 4= 1 Fathom.
288000=96000=24000=8000=4000=1000=1 Crose.

The Crose, or Bengal mile, is equal to 1 mile, 1 furlong, 3 poles, 3½ yards, English.

Wine Measure.

4	Gills, G.	make	1	Pint.	P.
2	Pints, Pts.	..	1	Quart.	Qt.
4	Quarts	..	1	Gallon.	Gal.
42	Gallons	..	1	Tierce.	Trc.
1½	Tierce, or 63 Gallons	..	1	Hogshead.	Hhd.
2	Hogsheads	..	1	Pipe.	P.
2	Pipes	..	1	Tun.	Tun.

10 Gallons	make	1	Anker of Brandy.
18 Gallons	..	1	Rundlet.
2 Tierces, or 84 Gallons,	..	1	Puncheon.

Inches
28⅞= 1 Pint.
57¾= 2= 1 Quart.
231 = 8= 4= 1 Gallon.
9702 = 336= 168= 42=1 Tierce.
14553 = 504= 252= 63=1½=1 Hogshead.
19404 = 672= 336= 84=2 =1⅓=1 Puncheon.
29106 =1008= 504=126=3 =2 =1½=1 Pipe.
58212 =2016=1008=252=6 =4 =3 =2=1 Tun.

Ale and Beer Measure.

2	Pints, Pts.	make	1 Quart.	Qt.
4	Quarts	..	1 Gallon.	Gal.
9	Gallons	..	1 Firkin.	Fir.
2	Firkins	..	1 Kilderkin.	Kil.
2	Kilderkins	..	1 Barrel.	Brl.
1½	Barrel, or 54 gallons	..	1 Hogshead.	Hhd.
2	Hogsheads, or 3 barrels	..	1 Butt.	Bt.

Cubic Inches.

35¼ = 1 Pint.
70½ = 2 = 1 Quart.
282 = 8 = 4 = 1 Gallon, = 3 srs. $10\frac{2}{11}$ ch.
2538 = 72 = 36 = 9 = 1 Firkin.
5076 = 144 = 72 = 18 = 2 = 1 Kilderkin.
10152 = 288 = 144 = 36 = 4 = 2 = 1 Barrel.
15228 = 432 = 216 = 54 = 6 = 3 = 1½ = 1 Hhd.
30456 = 864 = 432 = 108 = 12 = 6 = 3 = 2 = 1 Butt.

Bengal Liquid Measure.

5	Sicca Rupees' weight	make	1 Chuttack.	ck.
4	Chuttacks	..	1 Powah.	p.
4	Powahs	..	1 Seer.	sr.
40	Seers	..	1 Maund.	md.

Sa. Wt.

5 = 1 Chuttack.
20 = 4 = 1 Powah.
80 = 16 = 4 = 1 Seer.
3200 = 640 = 160 = 40 = 1 Maund, = 11 Gals.

Square or Land Measure.

144	Sq. Inches	make	1 Sq. Foot.
9	Sq. Feet	..	1 Sp. Yard.
30¼	Sq. Yards	..	1 Rod, Pole, or Perch.
40	Sq. Rods	..	1 Rood.
4	Sq. Roods	..	1 Acre.
640	Sq. Acres	..	1 Sq. Mile.

100 Sq. Feet .. 1 Square of flooring.

Inches

144 = 1 Foot.
1296 = 9 = 1 Yard.
39204 = 272¼ = 30¼ = 1 Pole.
1568160 = 10890 = 1210 = 40 = 1 Rood.
6272640 = 43560 = 4840 = 160 = 4 = 1 Acre.

The square of a number is obtained by multiplying the number by itself; as, 12 × 12 = 144, which is the square of 12.

Bengal Land Measure.

27 Jaub, Jb.	make	1 Ungooly.	Un.
4 Ungooly	..	1 Mooty, = 3 in.	My.
3 Mooty	..	1 Biggot, = 9 in.	Bt.
2 Biggot, (18 inches)	..	1 Haut or cubit.	Ht.
5 Cubits long by 4 wide	..	1 Chuttack = 45 sq. feet.	
16 Chuttacks	..	1 Cottah, = 720 sq. feet.	
20 Cottahs, or 80 cubits square,		1 Bigha, = 14400 sq. feet.	

324 inches make 1 Square Cubit.

Jaub
27 = 1 Ungooly.
108 = 4 = 1 Mooty.
324 = 12 = 3 = 1 Biggot.
648 = 24 = 6 = 2 = 1 Haut, equal to 18 inches.

A Chuttack is a square, measuring about 6¾ feet on each side, or containing in all 45 square feet. A Cottah is a square, measuring about 26¾ feet on each side, or containing 720 square feet. A Bigha measures on each side 120 feet, and contains altogether 14,400 square feet. $3\frac{1}{40}$ bighas equal 1 acre.

Cubic or Solid Measure.

1728 (=12×12×12) Inches	make	1 Solid Foot.
27 (= 3×3×3) Feet	..	1 Yard, or Load of earth.
40 Feet of round timber 50 Feet of hewn timber	..	1 Ton or Load.
42 Feet	..	1 Ton of shipping.

By this measure are measured all things that have length, breadth, and depth.

Wool Weight.

7 Pounds, lbs.	make	1 Clove.	Cl.
2 Cloves	..	1 Stone.	St.
2 Stone	..	1 Tod.	Tod.
6½ Tods	..	1 Wey.	Wey.
2 Weys	..	1 Sack.	Sk.
12 Sacks	..	1 Last.	La.

Pounds
7 = 1 Clove.
14 = 2 = 1 Stone.
28 = 4 = 2 = 1 Tod.
182 = 26 = 13 = 6½ = 1 Wey.
364 = 52 = 26 = 13 = 2 = 1 Sack.
4368 = 624 = 312 = 156 = 24 = 12 = 1 Last.

Dry Measure.

2 Pints, pt.	make	1 Quart.	Qt.
2 Quarts	..	1 Pottle.	Pot.
2 Pottles	..	1 Gallon.	Gal.
2 Gallons	..	1 Peck.	Peck.
4 Pecks	..	1 Bushel.	Bu.
2 Bushels	..	1 Strike.	Str.
2 Strikes	..	1 Comb.	Comb.
2 Combs	..	1 Quarter.	Qr.
5 Quarters	..	1 Wey, or Load.	Wey.
2 Weys	..	1 Last.	Last.

Inches
$268\frac{4}{5}=$ 1 Gallon.
$537\frac{3}{5}=$ 2= 1 Peck.
$2150\frac{2}{5}=$ 8= 4= 1 Bushel.
$4300\frac{4}{5}=$ 16= 8= 2= 1 Strike.
$8601\frac{3}{5}=$ 32= 16= 4= 2= 1 Comb.
$17203\frac{1}{5}=$ 64= 32= 8= 4= 2= 1 Quarter.
86016 =320=160=40=20=10= 5 = 1 Wey.
172032 =640=320=80=40=20=10 = 2 = 1 Last.

The Bushel in water measure is		5 Pecks.
A Score of Coals	..	21 Chaldrons.
A Sack of Coals	..	3 Bushels=2 cwts.
A Chaldron of Coals	..	12 Sacks, or 36 bushels.
A Load of Corn	..	5 Bushels.
A Cart of Corn	..	40 Bushels.

A standard bushel is $18\frac{3}{4}$ inches wide, and 8 inches deep. This measure is applied to all drossy and coarse things.

Bengal Grain Measure.

5 Chuttacks, ch.	make	1 Koonkee.	Ke.
4 Koonkees	..	1 Raik.	Rk.
4 Raiks	..	1 Pally.	Pal.
20 Pallies	..	1 Sully.	Sul.
16 Sullies	..	1 Kahun, = 40 mds.	Khn.

Chuttacks
5 = 1 Koonkee.
20 = 4 = 1 Raik.
80 = 16 = 4 = 1 Pally.
1600 = 320 = 80 = 20 = 1 Sully.
25600 = 5120 = 1280 = 320 = 16 = 1 Kahun.

Time.

60	Seconds, sec.	make	1 Minute.	m.
60	Minutes	..	1 Hour.	h.
24	Hours	..	1 Day.	day.
7	Days	..	1 Week.	wk.
52	Weeks, 1 day, 6 hours..	.	1 Julian year.	yr.
365*d.* 5*h.* 48*m.* 57*s.*		..	1 Solar year.	

The year is also divided into twelve months.

To know how many days are in each month, observe:

Thirty days hath September,
April, June, and November;
February has twenty-eight alone;
All the rest have thirty-one;
Except in Leap-year, at which time,
February's days are twenty-nine.

Every fourth year is called Leap-year, and consists of 366 days.

Bengal Time.

60	Poll	make	1 Ghurree = 24 min.	gh.
7½	Ghurries	..	1 Pruhur = 3 hours.	pr.
8	Pruhur	..	1 Day = 24 hours.	dy.
7	Days	..	1 Hufta.	hu.
15	Days	..	1 Puhka.	pa.
2	Puhka	..	1 Maus.	ms.
2	Maus	..	1 Rhitoo.	rho.
6	Rhitoo	..	1 Batsar or year.	br.
12	Batsar	..	1 Joog.	jg.

Astronomical Table.

60	Seconds (″)	make	1 Minute.	(′)
60	Minutes	..	1 Degree.	(°)
30	Degrees	..	1 Sign.	
12	Signs, or 360°	..	1 Circle, or the Zodiac.	

Signs of the Zodiac.

The Ram, the Bull, the heavenly Twins,
And next the Crab, the Lion shines,
The Virgin, and the Scales;
The Scorpion, Archer, and Sea-goat,
The man who holds the Watering-pot,
And Fish with glittering tails.

as.	*p.*	
8	0	= $\frac{1}{2}$ of a Rupee.
5	4	= $\frac{1}{3}$
4	0	= $\frac{1}{4}$
2	8	= $\frac{1}{6}$
2	0	= $\frac{1}{8}$
1	4	= $\frac{1}{12}$
1	0	= $\frac{1}{16}$

pies	
6	= $\frac{1}{2}$ of an Anna.
4	= $\frac{1}{3}$
3	= $\frac{1}{4}$
2	= $\frac{1}{6}$
1	= $\frac{1}{12}$

srs.	*cks.*	
20	0	= $\frac{1}{2}$ of a Maund.
10	0	= $\frac{1}{4}$
8	0	= $\frac{1}{5}$
5	0	= $\frac{1}{8}$
4	0	= $\frac{1}{10}$
2	8	= $\frac{1}{16}$
2	0	= $\frac{1}{20}$
1	4	= $\frac{1}{32}$
1	0	= $\frac{1}{40}$

cks.	
8	= $\frac{1}{2}$ of a Seer.
4	= $\frac{1}{4}$
2	= $\frac{1}{8}$
1	= $\frac{1}{16}$

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s.	*d.*	
10	0	= $\frac{1}{2}$ of a Pound.
6	8	= $\frac{1}{3}$
5	0	= $\frac{1}{4}$
4	0	= $\frac{1}{5}$
3	4	= $\frac{1}{6}$
2	6	= $\frac{1}{8}$
2	0	= $\frac{1}{10}$
1	8	= $\frac{1}{12}$
1	4	= $\frac{1}{15}$
1	3	= $\frac{1}{16}$
1	0	= $\frac{1}{20}$

d.	
6	= $\frac{1}{2}$ of a Shilling.
4	= $\frac{1}{3}$
3	= $\frac{1}{4}$
2	= $\frac{1}{6}$
1½	= $\frac{1}{8}$
1	= $\frac{1}{12}$

farthings.	
2	= $\frac{1}{2}$ of a Penny.
1	= $\frac{1}{4}$

cwt.	
10	= $\frac{1}{2}$ of a Ton.
5	= $\frac{1}{4}$
4	= $\frac{1}{5}$
2½	= $\frac{1}{8}$
2	= $\frac{1}{10}$

qrs. lbs.	
2 or 56	= $\frac{1}{2}$ a Cwt.
1 or 28	= $\frac{1}{4}$
16	= $\frac{1}{7}$
14	= $\frac{1}{8}$

℔	
14	= $\frac{1}{2}$ of a Qr.
7	= $\frac{1}{4}$
4	= $\frac{1}{7}$
3½	= $\frac{1}{8}$

Aliquot parts of any denomination in weights and measures may be taken in like manner.